

**WORK PLAN**  
**UNDERGROUND STORAGE TANK CLOSURE**  
**FEDERAL BUILDING**  
**339 BROADWAY STREET**  
**CAPE GIRARDEAU, MISSOURI 63701-7330**

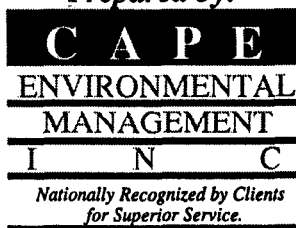
Contract No. GS06P98GYC0012  
Project No. RMO99000

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*February 2000*

## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE NO.</u>
SECTION 1: INTRODUCTION.....	1
1.1 <i>Project Scope of Work</i> .....	1
1.2 <i>Site Description</i> .....	1
1.3 <i>UST Background</i> .....	2
1.4 <i>Construction Sequencing</i> .....	2
SECTION 2: UNDERGROUND STORAGE TANK SYSTEM REMOVAL & SITE RESTORATION .....	3
2.1 <i>Scope of Work</i> .....	3
2.2 <i>Scheduling and Sequencing</i> .....	3
2.3 <i>UST System Removal Procedure</i> .....	3
2.3.1    Excavation.....	3
2.3.2    Tank Contents Removal, Cleaning, and Purging .....	3
2.3.3    Tank Extraction, Cutting, and Disposal .....	4
2.3.4    Potentially Contaminated Soil.....	4
2.4 <i>Site Restoration</i> .....	5
2.4.1    Excavation Backfilling.....	5
2.4.2    Concrete Replacement.....	5
2.4.3    Landscaping.....	5
SECTION 3: MATERIALS HANDLING PLAN .....	6
3.1 <i>Identification, Transportation, and Disposal of Waste</i> .....	6
3.1.1    Identification of Waste Streams .....	6
3.1.2    Transportation and Disposal.....	6
3.2 <i>Regulatory Compliance</i> .....	7
SECTION 4: SPILL AND DISCHARGE CONTROL PLAN.....	8
4.1 <i>Hazardous Substances</i> .....	8
4.1.1    Identification .....	8
4.1.2    Storage and Handling .....	8
4.2 <i>Release Prevention</i> .....	8
4.3 <i>Release Response</i> .....	9
4.3.1    Release Notification .....	9
4.3.2    Release Response Equipment and Materials.....	9
4.3.3    Containment and Cleanup Procedures .....	9
SECTION 5: ENVIRONMENTAL PROTECTION PLAN .....	11
5.1 <i>Protection of Features</i> .....	11
5.2 <i>Environmental Monitoring</i> .....	11
5.3 <i>Traffic Control</i> .....	11

## TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE NO.</u>
5.4	<i>Erosion Control</i> .....	11
5.5	<i>Dust Control</i> .....	12
SECTION 6:	FIELD SAMPLING AND LABORATORY ANALYTICAL PLAN.....	13
6.1	<i>Regulatory Compliance</i> .....	13
6.2	<i>Investigation Approach</i> .....	13
6.3	<i>Soil Investigations</i> .....	13
6.3.1	Soil Sample Locations.....	14
6.3.2	Soil Sample Collection Procedures .....	14
6.3.3	Soil Sample Laboratory Analysis .....	14
6.4	<i>Groundwater Sampling</i> .....	14
6.5	<i>Waste Characterization</i> .....	15
6.5.1	Investigation-Derived Waste Management .....	15
6.6	<i>Decontamination Procedures</i> .....	15
6.7	<i>Field Documentation</i> .....	15
6.8	<i>Sample Custody</i> .....	16
6.9	<i>Laboratory QA/QC Procedures and Reporting</i> .....	17

### APPENDICES

APPENDIX A CONSTRUCTION DRAWINGS

APPENDIX B CONSTRUCTION SCHEDULE

## **SECTION 1: INTRODUCTION**

### **1.1 PROJECT SCOPE OF WORK**

The project scope of work includes removal of one 4,000-gallon underground storage tank (UST) at the Federal Building in Cape Girardeau, Missouri. Specific items of work relating to the UST removal include: installation of a temporary chain link fence for safety and security purposes; excavation of soil; removal and disposal of the UST; grouting and abandonment of the exterior UST product piping; removal of the interior UST product piping; excavation backfilling; site restoration; environmental site assessment and media sampling; and submission of an UST Closure Assessment Report (CAR).

The UST is dedicated to the heating system within the Federal Building. As such, it is classified as a heating oil UST and is not strictly regulated by the Tank Section of the Missouri Department of Natural Resources (DNR). Closure of this UST will be pursued through the Voluntary Cleanup Program (VCP) of the Missouri DNR. Once the UST site is accepted into the VCP process, a Letter of Agreement will be executed between the VCP and the site owner/representative. VCP personnel will then provide oversight for the UST closure activities, review the UST CAR, and provide a 'No Further Action' letter, as applicable, for the UST site.

Waste generated during the UST removal activities will be handled and disposed in accordance with applicable local, state, and federal regulations. Material and waste management procedures are described in Section 3. Contaminated soils are not anticipated in the vicinity of the UST. If contaminated soils are encountered during UST closure activities, the GSA Contracting Officer or a designated point of contact will be immediately notified. Over-excavation of contaminated soils will not be conducted without prior approval of GSA personnel as well as coordination with the Missouri DNR.

Site work will be conducted as described in this Work Plan and in accordance with the contract documents. Site work is anticipated to begin in the first or second quarter of 2000. Standard hours for site work will be from 7:00 AM until 5:00 PM. Modifications to the work schedule may become necessary to account for weather or other unforeseen factors; however, no adjustment in site work hours will be made without coordination with the GSA point of contact.

Standard specifications related to this work are being provided to the GSA under separate cover. However, information provided in this work plan will supercede any conflicting information contained in the standard specifications.

### **1.2 SITE DESCRIPTION**

The UST slated for removal is located under grass surface cover in a high traffic area on the North side of the Federal Building. The front entrance to the building is on the North side of the building, approximately 30 feet from the North end of the UST. The work area for the UST site is constrained by a public sidewalk along Broadway Street to the north, a flagpole set in a 9' x 9' concrete pad to the east, a flower bed and a handicap ramp to the south, and another public

sidewalk along Fontain Street to the west. A plan view of the site is presented in Figure 1 of Appendix A.

### **1.3 UST BACKGROUND**

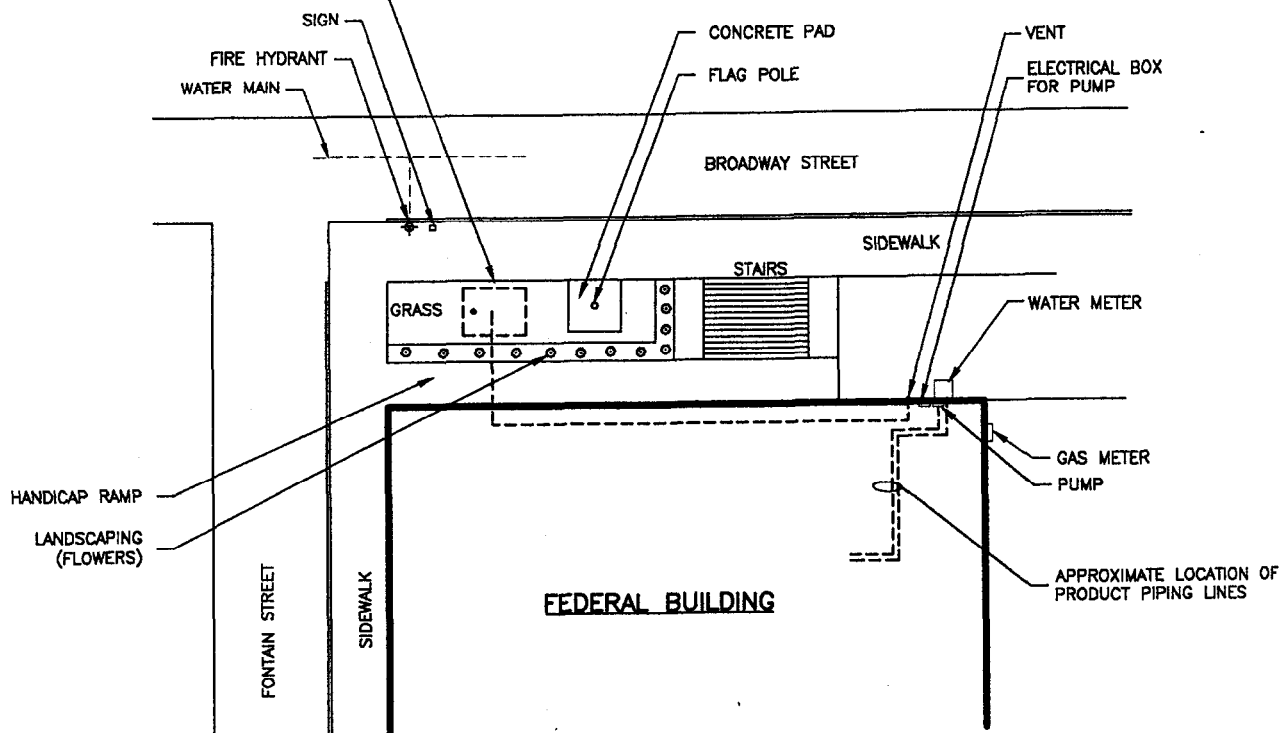
The UST that will be removed contains #2 fuel oil and supplies fuel to the boilers for the Federal Building. The UST has a 4,000 gallon capacity and is filled by a commercial tanker truck that pumps the fuel oil into a fill pipe located directly over the tank. The tank is 8.0 feet in diameter. The depth to the top of the UST is unknown. An unknown volume of #2 fuel oil exists within the tank.

### **1.4 CONSTRUCTION SEQUENCING**

A schedule of construction activities is presented in Appendix B. It is estimated that the construction period will be approximately 6 to 8 days. The following construction sequencing has been developed for the project:

1. Contact Missouri DNR VCP Section at 573/526-8913 to coordinate VCP oversight of UST closure activities
2. Underground utility marking
3. Removal of remaining fuel oil in the UST—to be performed by GSA personnel prior to CAPE's mobilization to the site
4. Mobilization
5. Installation of a temporary chain link fence along the public sidewalk (North side of site)
6. Removal of UST product piping inside the building from the pump room interior wall penetrations back to the Mechanical Room wall penetrations (interior vent line piping to remain)
7. Removal of pump and wall-mounted tank level gauge inside pump room
8. Abandonment (grouting) of exterior vent line and product piping
9. Excavation and removal of the 4,000 gallon UST
10. Site assessment and sample collection
11. Backfill of 4,000 gallon UST excavation
12. Site restoration, including topsoil, sod, and concrete sidewalk replacement as necessary
13. Demobilization

APPROXIMATE LOCATION OF 4,000 GALLON  
UNDERGROUND STORAGE TANK TO BE  
REMOVED



FEDERAL BUILDING  
CAPE GIRARDEU, MO  
SITE PLAN

SCALE: 1" = 30'-0"



TANK No.	APPROXIMATE TANK CAPACITY	APPROXIMATE TANK DIMENSIONS	APPROXIMATE DEPTH TO TOP OF TANK	APPROXIMATE CURRENT TANK CONTENTS
1	4,000 GALLONS	8'ø x 10'-6"	UNKNOWN	UNKNOWN VOLUME OF #2 FUEL OIL

### DEMOLITION/RESTORATION NOTES

1. CONTACT THE MISSOURI DNR VOLUNTARY CLEANUP SECTION (VCP) AT (573) 526-8913 TO GIVE A 24-HOUR NOTICE PRIOR TO UST CLOSURE ACTIVITIES.
2. GSA PERSONNEL TO PROVIDE REMOVAL OF BULK FUEL FROM UST.
3. VERIFY EXACT LOCATIONS OF ALL UTILITIES BEFORE DIGGING.
4. PROVIDE TEMPORARY CHAIN LINK FENCE AT PUBLIC SIDEWALK. PROVIDE BARRICADES AS NECESSARY TO RE-DIRECT FOOT TRAFFIC AWAY FROM WORK AREA.
5. FLUSH SUPPLY/RETURN PIPING, CUT PRODUCT PIPING (SUPPLY AND RETURN) AND VENT PIPING AS NECESSARY TO REMOVE THE UST. PLUG THE CUT ENDS WITH CEMENT GROUT. EXTERIOR PIPING AND VENT LINE TO BE ABANDONED IN-PLACE.
6. CUT PRODUCT PIPING AT WALL PENETRATIONS INSIDE THE BUILDING. DISCONNECT ELECTRICAL FROM PUMP TO ADJACENT ELECTRICAL BOX (APPROXIMATELY 3 FEET). REMOVE PUMP AND WALL MOUNTED TANK GAUGE. REMOVE ALL INTERIOR PIPING FROM WALL PENETRATIONS THROUGH HALLWAYS TO MECHANICAL ROOM PENETRATION JUST BELOW HVAC DUCT. GROUT/PATCH ALL EXTERIOR WALL PENETRATIONS AND MECHANICAL ROOM WALL PENETRATIONS AS NECESSARY WITH APPROPRIATE FIRE-RATED MATERIALS. PRODUCT PIPING WITHIN THE MECHANICAL ROOM AND ALL INTERIOR VENT LINE PIPING TO REMAIN.
7. REMOVE THE 4,000 GALLON UST. REMOVE CONCRETE SIDEWALK ON NORTH SIDE AS NECESSARY TO ACCESS TANK AND FACILITATE REMOVAL. EXCAVATE AND REMOVE BACKFILL MATERIAL, TEST, AND RE-USE OR PROPERLY DISPOSE AS NECESSARY BASED ON TEST RESULTS. ABANDON THE UNDERLYING CONCRETE BALLAST PAD AND TANK STRAPS IN-PLACE.
8. AFTER THE TANK HAS BEEN REMOVED AND CLEANED, CUT HOLES IN EACH END TO PRECLUDE FUTURE USE AS A STORAGE VESSEL. TANK SHALL BE TRANSPORTED OFFSITE FOR DISPOSAL OR SCRAP METAL RECYCLING, AS APPROPRIATE.
9. CONDUCT SOIL SAMPLE COLLECTION AND DOCUMENT SITE CONDITIONS AS REQUIRED FOR COMPLETING A UST CLOSURE ASSESSMENT REPORT IN ACCORDANCE WITH MISSOURI DNR REGULATIONS. LABORATORY ANALYSES FOR SOIL SAMPLES COLLECTED FROM WITHIN THE UST EXCAVATIONS SHALL BE EXPEDITED (24-48-HOUR TURNAROUND) TO FACILITATE SITE RESTORATION.
10. BACKFILL AND COMPACT TANK EXCAVATION. PLACE TOPSOIL AND SOD AT WORK AREA TO MATCH EXISTING CONDITIONS. REPLACE SIDEWALK SECTIONS AND/OR DAMAGED SIGNAGE AS NECESSARY IN ACCORDANCE WITH CITY CODES TO MATCH EXISTING CONDITIONS.
11. GSA PERSONNEL TO REMOVE/REPLANT THE FLOWERS NEAR THE UST LOCATION.
12. NOT RESPONSIBLE FOR ANY DAMAGE TO SIDEWALKS, CURB, FLAGPOLE, OR HANDICAP RAMP.
13. NOT RESPONSIBLE FOR ANY DAMAGE TO TREES OR BUSHES. FINAL LANDSCAPING NOT INCLUDED IN THIS SCOPE OF WORK.
14. CONTAMINATED SOIL OR WATER REMOVAL IS NOT INCLUDED IN THIS SCOPE OF WORK.

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APPROVED BY:

DATE:

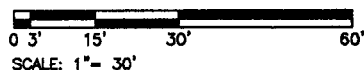
PROJECT NAME:  
GSA HEARTLAND UST CLOSURE  
FEDERAL BUILDING  
US COURT  
338 BROADWAY STREET  
CAPE GIRARDEU, MO  
GSA PROJECT No. RM 0990

FIGURE 1 US  
SITE PLAN

8801C.009.000

SHEET NUMBER: <b>FIGURE 1</b>	DRAWN BY: <b>C.RIOS</b>
SHEET: 1 OF: 1	CHECKED BY: <b>BANDERS</b>
FILE NAME: <b>FIGURE1.DWG</b>	DATE: <b>JAN. 00</b>

### GRAPHIC SCALE



FBGIRARFIG1.DWG JAN. 00

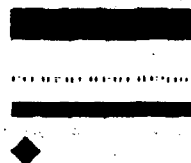
## Underground Storage Tank Closure Schedule

### Federal Building, 339 Broadway Street, Cape Girardeau, Missouri

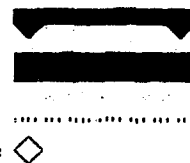
ID	Task Name	Duration	Week 1							Week 2							Week 3						
			M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F		
1	Removal of Bulk Fuel in UST (GSA to coordinate)	1 day																					
2	Underground Utility Marking (CAPE to coordinate)	1 day																					
3	CAPE Site Activities	6 days																					
4	CAPE Mobilization	1 day																					
5	Excavation and Removal of 4k UST	1 day																					
6	Site Assessment and Sample Collection	0.5 days																					
7	Abandon Vent and Exterior Product Piping	0.5 days																					
8	Removal of Interior Product Piping	0.5 days																					
9	Backfill Excavation	0.5 days																					
10	Site Restoration	1 day																					
11	Demobilization	1 day																					

GSA RMO99000 / CAPE 8801c.009  
 Site: Federal Bldg, Cape Girardeau,  
 Revision Date: Fri 3/3/00

Task  
 Split  
 Progress  
 Milestone



Summary  
 Rolled Up Task  
 Rolled Up Split  
 Rolled Up Milestone



Rolled Up Progress  
 External Tasks  
 Project Summary

